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PATENT SPECIFICATION

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Div. 3
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PROVISIONAL SPECIFICATION

Improvements relating to Reflecting Devices on Cycles

We, THE HERCULES CYCLE AND MOTOR COMPANY LIMITED, a British company, of Britannia Works, Rocky Lane, Aston, Birmingham, and ALFRED EDWARD ROWE, a British Subject, of the Company's address, do hereby declare the nature of this invention to be as follows:—

This invention relates to the mounting of reflecting devices on cycles and refers particularly to the mounting of such reflectors on the mudguards of cycles, although the invention may be applied to other parts of cycles where its application is found convenient.

The invention consists in a pressed metal bracket or brackets formed hollow on the back and having portions or tongues left by slottings in the pressed metal part through which a reflecting surface is exhibited, the tongue parts left between these slotted portions serving as attachment means for the reception of screws or the like so that there are no external attachment means outside the mounting bracket.

In a preferred embodiment a pressed metal bracket portion hollow on the back as described is stamped in one piece from a blank of much larger size than the slotted part through which a reflector is exhibited and the remaining portion of the blank is raised in press tools to form a hollow boss with an inclined face. This boss is closed on the sides but open on the back and its edges are in approximately

the same plane as the shallow edges of the slotted portion of the bracket and are slightly tipped or flanged for seating on a mudguard or other portion of a cycle. When these edges are seated on an appropriate part of the cycle the inclined surface of the boss will be directed in a substantially vertical plane and upon it is mounted any suitable reflector, usually a ruby reflector of approved type which cyclists are required to carry.

The reflecting portions inserted behind the slotted parts of the bracket may be of polished metal with a mirror surface or an actual silvered glass mirror so that in combination with the ruby or like reflector, a mirror reflector throwing back a white light is provided.

It is preferred to arrange the slotting in the pressed metal member so that it represents a letter, say of the particular make of machine, but it may be arranged to show any desired geometrical pattern provided that lugs or tongues are left by the slotting to take the attachment screws as above provided.

Instead of being secured directly on to a mudguard or the like, the pressed metal member or members may be secured, if desired, to a metal or other strip which is finished in white enamel or the like for attachment to a mudguard.

Dated this 9th day of April, 1936.
BARKER, BRETTELL & DUNCAN,
Chartered Patent Agents,
75 & 77, Colmore Row, Birmingham 3.

COMPLETE SPECIFICATION

Improvements relating to Reflecting Devices on Cycles

We, THE HERCULES CYCLE AND MOTOR COMPANY LIMITED, a British company, of Britannia Works, Rocky Lane, Aston, Birmingham, and ALFRED EDWARD ROWE, a British Subject, of the Company's address, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained

[Price 1/-]

in and by the following statement:—

This invention relates to the mounting of reflecting devices on cycles and refers particularly to the mounting of such reflectors on the mudguards of cycles, although the invention may be applied to other parts of cycles where its application is found convenient.

The invention consists in a pressed

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metal bracket or brackets formed hollow on the back and having portions or tongues left by slottings in the pressed metal part through which a reflecting surface is exhibited, the tongue parts left between these slotted portions serving as attachment means for the reception of screws or the like so that there are no external attachment means outside the mounting bracket.

The reflecting portions inserted behind the slotted parts of the bracket may be of polished metal with a mirror surface or an actual silvered glass mirror so that in combination with the ruby or like reflector, a mirror reflector throwing back a white light is provided.

It is preferred to arrange the slotting in the pressed metal member so that it represents a letter, say of the particular make of machine, but it may be arranged to show any desired geometrical pattern provided that lugs or tongues are left by the slotting to take the attachment screws as above provided.

One practical embodiment of our invention is illustrated by way of example in the accompanying drawings in which:—

Figure 1 is an elevation of the bracket and reflector fitted to a cycle mudguard.

Figure 2 is a side elevation of the bracket and reflector.

Figure 3 is a vertical section through the bracket.

Figure 4 is a rear elevation of the bracket and reflector.

In the arrangement illustrated a hollow bracket *a* is pressed from a sheet metal blank. The blank is pressed with a peripheral rearwardly extending flange *b* so that the bracket is hollow at the back, and this flange has an outwardly turned lip *c* of such a contour as to seat smoothly against the curved surface of a mudguard *d*. The flange *b* around the upper part of the bracket is comparatively shallow but the lower part of the bracket is raised to form a tapering hollow boss *e* having a flat face which is set at an angle to the remainder of the bracket so that when the bracket is fitted to a mudguard the face of the boss *e* is substantially vertical. A ruby reflector *f* of any approved type is secured to this face by rivets *g*.

The upper part of the bracket is pierced with two longitudinal parallel slots *h* connected by a transverse slot *j* to provide an opening having the form of the letter H.

A sheet metal pressing *k* of such an outline as to fit within the flange *b* at the back of the upper part of the bracket has pressed in it raised or embossed ribs *l* of such a form as to fit into the slots *h* and *j* when the pressing is applied to the

back of the bracket, and the front surface of these ribs is chromium-plated and polished to provide a reflecting surface. The pressing is secured to the bracket by eyelets *m* passing through holes in the pressing and through registering holes in the tongue parts *n* of the bracket above and below the slot *j*. These eyelets serve to receive screws or studs *p* by which the bracket is secured to the mudguard.

The reflecting surfaces of the ribs *l* which project through the bracket catch the light from the lamps of other vehicles and the combination of these surfaces with the ruby reflector forms an effective warning device of attractive appearance.

Instead of mounting the bracket directly on a cycle mudguard it may if desired be mounted on a metal or other strip which is finished in white enamel and is adapted to be fitted to a mudguard.

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. Means for mounting a deflecting device on cycles comprising a pressed sheet metal bracket of dished or equivalent form open at the back and having pierced openings through which a reflecting surface is exhibited and between which are left tongue parts for receiving screws or other means for the attachment of the bracket to a mudguard or the like.

2. A reflecting device for cycles comprising a pressed sheet metal bracket having a rearwardly extending peripheral flange adapted to seat against a mudguard or the like and a further sheet metal pressing held against the rear face of the bracket and having raised or embossed parts with a reflecting surface which project into or through slots pierced for the purpose in the bracket, the bracket being adapted to be secured to the mudguard or the like by screws or other securing means passing through the bracket adjacent to the slots.

3. A reflecting device for cycles as claimed in Claim 1 or 2 in which a raised boss is formed on the bracket to receive a ruby reflector of any approved type which is secured to the boss.

4. A reflecting device for cycles as claimed in Claim 2 in which the pressing having the raised or embossed reflecting parts is secured to the bracket by eyelets adapted to receive screws or other securing means for mounting the bracket on a mudguard or the like.

5. The reflecting device for cycles substantially as described with reference to the accompanying drawings.

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Perules Cycle

Fig. 1

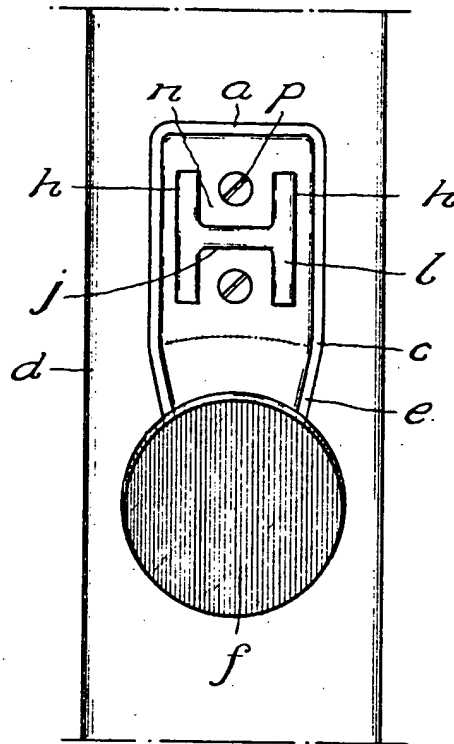


Fig. 2

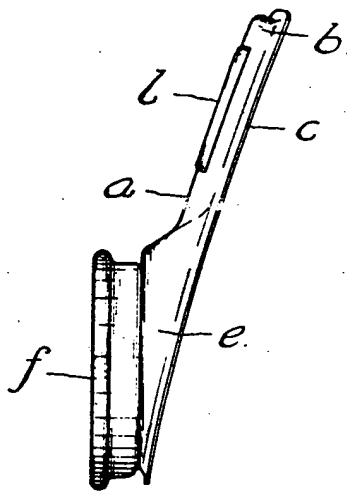


Fig. 3

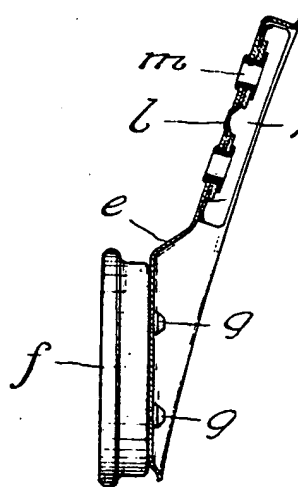
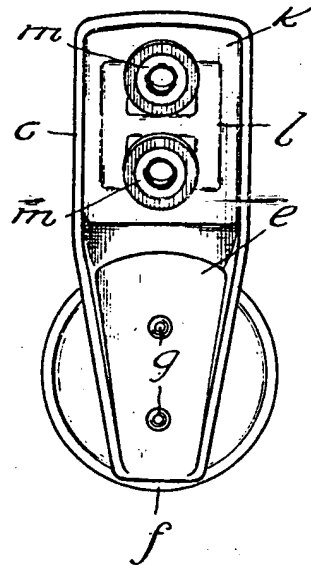


Fig. 4



[This Drawing is a reproduction of the Original on a reduced scale.]

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